163 1

Serial Number: _09/687,483A_

CRF Processing Date: _5/24/2001_
Edited by:
Verified by: _____ (STIC staff)

ENTERED

#6

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☑ Inserted (or corrected) a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _21_
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included: .
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____.

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING   DATE: 06/06/2001
PATENT APPLICATION: **US/09/687,483A**   TIME: 11:09:02

Input Set : **A:\Pto.amc**
Output Set: **C:\CRF3\06062001\I687483A.raw**

```
    3 <110> APPLICANT: Braun et al.
    5 <120> TITLE OF INVENTION: METHODS FOR GENERATING DATABASES AND DATABASES FOR
IDENTIFYING
    6       POLYMORPHIC GENETIC MARKERS
    9 <130> FILE REFERENCE: 24736-2033
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/687,483A
   12 <141> CURRENT FILING DATE: 2000-10-13
   14 <150> PRIOR APPLICATION NUMBER: 60/217,658
   15 <151> PRIOR FILING DATE: 2000-07-10
   17 <150> PRIOR APPLICATION NUMBER: 60/159,176
   18 <151> PRIOR FILING DATE: 1999-10-13
   20 <150> PRIOR APPLICATION NUMBER: 60/217,251
   21 <151> PRIOR FILING DATE: 2000-07-10
   23 <150> PRIOR APPLICATION NUMBER: 09/663,968
   24 <151> PRIOR FILING DATE: 2000-09-19
   26 <160> NUMBER OF SEQ ID NOS: 118
   28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
   30 <210> SEQ ID NO: 1
   31 <211> LENGTH: 361
   32 <212> TYPE: DNA
   33 <213> ORGANISM: Homo Sapien
   35 <400> SEQUENCE: 1
   36 ctgaggacct ggtcctctga ctgctctttt cacccatcta cagtccccct tgccgtccca      60
   37 agcaatggat gatttgatgc tgtccccgga cgatattgaa caatggttca ctgaagaccc     120
   38 aggtccagat gaagctccca gaatgccaga ggctgctccc cgcgtggccc ctgcaccagc     180
   39 agctcctaca ccggcggccc ctgcaccagc cccctcctgg cccctgtcat cttctgtccc     240
   40 ttcccagaaa acctaccagg gcagctacgg tttccgtctg ggcttcttgc attctgggac     300
   41 agccaagtct gtgacttgca cggtcagttg ccctgagggg ctggcttcca tgagacttca     360
   42 a                                                                     361
   44 <210> SEQ ID NO: 2
   45 <211> LENGTH: 44
   46 <212> TYPE: DNA
   47 <213> ORGANISM: Artificial Sequence
   49 <220> FEATURE:
   50 <223> OTHER INFORMATION: Oligonucleotide Primer
   52 <400> SEQUENCE: 2
   53 cccagtcacg acgttgtaaa acgctgagga cctggtcctc tgac                       44
   55 <210> SEQ ID NO: 3
   56 <211> LENGTH: 42
   57 <212> TYPE: DNA
   58 <213> ORGANISM: Artificial Sequence
   60 <220> FEATURE:
   61 <223> OTHER INFORMATION: Oligonucleotide Primer
   63 <400> SEQUENCE: 3
   64 agcggataac aatttcacac aggttgaagt ctcatggaag cc                         42
   66 <210> SEQ ID NO: 4
   67 <211> LENGTH: 17
   68 <212> TYPE: DNA
```

```
 69 <213> ORGANISM: Artificial Sequence
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: Probe
 74 <400> SEQUENCE: 4
 75 gccagaggct gctcccc                                                    17
 77 <210> SEQ ID NO: 5
 78 <211> LENGTH: 17
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Artificial Sequence
 82 <220> FEATURE:
 83 <223> OTHER INFORMATION: Probe
 85 <400> SEQUENCE: 5
 86 gccagaggct gctcccc                                                    17
 88 <210> SEQ ID NO: 6
 89 <211> LENGTH: 19
 90 <212> TYPE: DNA
 91 <213> ORGANISM: Artificial Sequence
 93 <220> FEATURE:
 94 <223> OTHER INFORMATION: Probe
 96 <400> SEQUENCE: 6
 97 gccagaggct gctccccgc                                                  19
 99 <210> SEQ ID NO: 7
100 <211> LENGTH: 18
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Probe
107 <400> SEQUENCE: 7
108 gccagaggct gctccccc                                                   18
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 161
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo Sapien
115 <400> SEQUENCE: 8
116 gtccgtcaga acccatgcgg cagcaaggcc tgccgccgcc tcttcggccc agtggacagc     60
117 gagcagctga gccgcgactg tgatgcgcta atggcgggct gcatccagga ggcccgtgag    120
118 cgatggaact tcgactttgt caccgagaca ccactggagg g                        161
120 <210> SEQ ID NO: 9
121 <211> LENGTH: 43
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Oligonucleotide Primer
128 <400> SEQUENCE: 9
129 cccagtcacg acgttgtaaa acggtccgtc agaacccatg cgg                       43
131 <210> SEQ ID NO: 10
132 <211> LENGTH: 44
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
```

```
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Oligonucleotide Primer
139 <400> SEQUENCE: 10
140 agcggataac aatttcacac aggctccagt ggtgtctcgg tgac                44
142 <210> SEQ ID NO: 11
143 <211> LENGTH: 15
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Oligonucleotide Primer
150 <400> SEQUENCE: 11
151 cagcgagcag ctgag                                                15
153 <210> SEQ ID NO: 12
154 <211> LENGTH: 15
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Probe
161 <400> SEQUENCE: 12
162 cagcgagcag ctgag                                                15
164 <210> SEQ ID NO: 13
165 <211> LENGTH: 16
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Probe
172 <400> SEQUENCE: 13
173 cagcgagcag ctgagc                                               16
175 <210> SEQ ID NO: 14
176 <211> LENGTH: 17
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Probe
183 <400> SEQUENCE: 14
184 cagcgagcag ctgagac                                              17
186 <210> SEQ ID NO: 15
187 <211> LENGTH: 205
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo Sapien
191 <400> SEQUENCE: 15
192 gcgctccatt catctcttca tcgactctct gttgaatgaa gaaaatccaa gtaaggccta    60
193 caggtgcagt tccaaggaag cctttgagaa agggctctgc ttgagttgta gaaagaaccg   120
194 ctgcaacaat ctgggctatg agatcaataa agtcagagcc aaaagaagca gcaaaatgta   180
195 cctgaagact cgttctcaga tgccc                                        205
197 <210> SEQ ID NO: 16
198 <211> LENGTH: 42
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
```

```
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Oligonucleotide Primers
205 <400> SEQUENCE: 16
206 cccagtcacg acgttgtaaa acggcgctcc attcatctct tc                42
208 <210> SEQ ID NO: 17
209 <211> LENGTH: 42
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Oligonucleotide Primer
216 <400> SEQUENCE: 17
217 agcggataac aatttcacac aggggggcatc tgagaacgag tc                42
219 <210> SEQ ID NO: 18
220 <211> LENGTH: 20
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Oligonucleotide Primer
227 <400> SEQUENCE: 18
228 caatctgggc tatgagatca                                         20
230 <210> SEQ ID NO: 19
231 <211> LENGTH: 20
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Probe
238 <400> SEQUENCE: 19
239 caatctgggc tatgagatca                                         20
241 <210> SEQ ID NO: 20
242 <211> LENGTH: 21
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Probe
249 <400> SEQUENCE: 20
250 caatctgggc tatgagatca a                                       21
252 <210> SEQ ID NO: 21
253 <211> LENGTH: 22
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Probe
260 <400> SEQUENCE: 21
261 caatctgggc tatgagatca gt                                      22
263 <210> SEQ ID NO: 22
264 <211> LENGTH: 60
265 <212> TYPE: DNA
266 <213> ORGANISM: Homo Sapien
268 <220> FEATURE:
```

269 <223> OTHER INFORMATION: Probe
271 <400> SEQUENCE: 22
272 gtgccggcta ctcggatggc agcaaggact cctgcaaggg ggacagtgga ggcccacatg   60
274 <210> SEQ ID NO: 23
275 <211> LENGTH: 60
276 <212> TYPE: DNA
277 <213> ORGANISM: Homo sapien
279 <400> SEQUENCE: 23
280 ccacccacta ccggggcacg tggtacctga cgggcatcgt cagctggggc cagggctgcg   60
282 <210> SEQ ID NO: 24
283 <211> LENGTH: 42
284 <212> TYPE: DNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Oligonucleotide primer
290 <400> SEQUENCE: 24
291 cccagtcacg acgttgtaaa acgatggcag caaggactcc tg   42
293 <210> SEQ ID NO: 25
294 <211> LENGTH: 18
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Oligonucleotide primer
301 <400> SEQUENCE: 25
302 cacatgccac ccactacc   18
304 <210> SEQ ID NO: 26
305 <211> LENGTH: 43
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Oligonucleotide primer
312 <400> SEQUENCE: 26
313 agcggataac aatttcacac aggtgacgat gcccgtcagg tac   43
315 <210> SEQ ID NO: 27
316 <211> LENGTH: 15
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Probe
323 <400> SEQUENCE: 27
324 atgccaccca ctacc   15
326 <210> SEQ ID NO: 28
327 <211> LENGTH: 19
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Probe
334 <400> SEQUENCE: 28
335 cacatgccac ccactaccg   19

VERIFICATION SUMMARY　　　　　　DATE: 06/06/2001
PATENT APPLICATION: **US/09/687,483A**　　　TIME: 11:09:03

Input Set : **A:\Pto.amc**
Output Set: **C:\CRF3\06062001\I687483A.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

1631

RAW SEQUENCE LISTING   DATE: 05/24/2001
PATENT APPLICATION: US/09/687,483A   TIME: 17:46:57 Does Not Comply
                                        Corrected Diskette Needed
Input Set : A:\2033seq.001
Output Set: C:\CRF3\05242001\I687483A.raw

```
     3 <110> APPLICANT: Braun et al.
     5 <120> TITLE OF INVENTION: METHODS FOR GENERATING DATABASES AND DATABASES FOR
IDENTIFYING
     6       POLYMORPHIC GENETIC MARKERS
     9 <130> FILE REFERENCE: 24736-2033
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/687,483A
    12 <141> CURRENT FILING DATE: 2000-10-13
    14 <150> PRIOR APPLICATION NUMBER: 60/217,658
    15 <151> PRIOR FILING DATE: 2000-07-10
    17 <150> PRIOR APPLICATION NUMBER: 60/159,176
    18 <151> PRIOR FILING DATE: 1999-10-13
    20 <150> PRIOR APPLICATION NUMBER: 60/217,251
    21 <151> PRIOR FILING DATE: 2000-07-10
    23 <150> PRIOR APPLICATION NUMBER: 09/663,968
    24 <151> PRIOR FILING DATE: 2000-09-19
    26 <160> NUMBER OF SEQ ID NOS: 118
    28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
```

ERRORED SEQUENCES

```
   252 <210> SEQ ID NO: 21
   253 <211> LENGTH: 22
   254 <212> TYPE: DNA
   255 <213> ORGANISM: Artificial Sequence
   257 <220> FEATURE:
   258 <223> OTHER INFORMATION: Probe
   260 <400> SEQUENCE: 21
E--> 261 caatctgggc tatgagatca gt
```

(20) 22

VERIFICATION SUMMARY   DATE: 05/24/2001
PATENT APPLICATION: **US/09/687,483A**   TIME: 17:46:59

Input Set : **A:\2033seq.001**
Output Set: **C:\CRF3\05242001\I687483A.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:261 M:254 E: No. of Bases conflict, LENGTH:Input:20 Counted:22 SEQ:21